

## Product datasheet for **MG209239**

### **Cpne5 (NM\_153166) Mouse Tagged ORF Clone**

#### **Product data:**

|                           |                                          |
|---------------------------|------------------------------------------|
| Product Type:             | Expression Plasmids                      |
| Product Name:             | Cpne5 (NM_153166) Mouse Tagged ORF Clone |
| Tag:                      | TurboGFP                                 |
| Symbol:                   | Cpne5                                    |
| Synonyms:                 | A830083G22Rik                            |
| Mammalian Cell Selection: | Neomycin                                 |
| Vector:                   | pCMV6-AC-GFP (PS100010)                  |
| E. coli Selection:        | Ampicillin (100 ug/mL)                   |



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**ORF Nucleotide Sequence:**

>MG209239 representing NM\_153166  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGC**C

ATGGAGCAACCCGAGGACATGGCGTCGCTCAGCGAGTTTCGACTCCTTGGCGGGCAGCATCCCGGCTACCA  
 AGGTGGAGATCACGGTGTCTATGCAGGAACCTCTTGGACAAAGACATGTTTTCCAAGTCTGACCCACTGTG  
 TGTCTGTACACTCAAGGGATGGAGAACAAGCAATGGCGAGAGTTCGGACGCACCGAGGTCATAGATAAC  
 ACGCTCAACCCGACTTCGTGCGCAAGTTCATTGTGGATTACTTCTTTGAGGAGAAGCAGAACCTCCGCT  
 TTGATCTCTACGATGTTGACTCCAAGAGCCCGGATCTATCTAACACGACTTCCTGGGCCAGGCCTTCTG  
 TACCTTTGGAGAAATTGTAGGGTCTCTGGGAGCCGTCTGGAGAAGCCTCTCACGATAGGAACATTACAGC  
 CTCAACTCCCGGACAGGCAAGCCTATGCCCGCCGTGTCTAACGGTGGTGTCCAGGGAAGAAATGTGGTA  
 CCATCATCTGTCTGCAGAGGAAGTGAAGCACTGCAGGATGTGGCCACAATGCAGTTCTGTGCCAACAA  
 GCTGGATAAGAAAGATTTCTTGGGAAATCTGACCCCTTCTTGGTGTCTACAGGAGCAATGAAGACGGA  
 ACGTTCCACATCTGTCTACAAGACGGAGGTCTGAAGAACCCTCAACCCGGTGTGGCAAACCTTCTCCA  
 TCCCCGTGAGGGCTCTGTGCAACGGAGACTATGACAGGACCATCAAGGTGGAGGTGTATGACTGGGATCG  
 TGACGGCAGCCATGACTTCATTGGGGAGTTCACCACAGCTACCGGGAGCTGGCACGTGGCCAGAGTCAG  
 TTCAACATCTATGAGGTGATAAATCCAAAAAGAAAATGAAGAAAAAGAAATACGTGAATTCTGGCAGCG  
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 CAATTCACCGTGGCCATTGACTTCACTGCCTCTAATGGGAATCCCTCACAGTCCACGTCCTCCACTAC  
 ATGAGTCCCTACCAGTGAACGCCTACGCGCTGGCGCTGACCGCCGTGGAGAGATCATTACGATTATG  
 ACAGTGACAAGATGTTCCCTGCCCTGGGCTTGGGGCCAAGCTGCCCCCGACGCGAGGTGTCCCATGA  
 GTTTCCTTGAATGGCAACCAGGAGAACCCTCCTGCTGTGGCATCGATGGCATCCTGGAGGCCTACCAC  
 AGCAGCCTGCGCACCGTGCAGCTTTACGGCCCCACTAATTTGCTCCTGTTGCTACTCACGTAGCCAGGA  
 ACGCCGCAGCTGTGCAGGATGGCTCCAGTATTCTGTGCTGCTCATCATCACTGATGGTGTCTCTCGGA  
 CATGGCACAGACCAAGGAGGCAATTGTAATGCTGCCAACTCCCTATGTCGATCATATTGTTGGCGTG  
 GGCCAGGCCGAGTTCGATGCCATGGTGGAGCTGGACGGTGTGACGTGCGGATCTCTCCAGGGGGAAGC  
 TGGCTGAGCGAGACATTGTCCAGTTGTGCCCTTCAGGGACTATGTGGACCGCACCGGAACACGTA  
 GAGCATGGCCCGCTGGCCCGGATGTTCTGGCTGAGATTCGGACCAACTGGTGTCTACATGAAGGCA  
 CAGGGCATCCGCCACGCCCGCACCTGCTGCACCGCTCAGTACCCCCACAGTCCCCAGCCCACTCAC  
 CTCTGGATCCCCGTGCACACGCATATC

**ACGCGTACGCGGCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:**

>MG209239 representing NM\_153166  
 Red=Cloning site Green=Tags(s)

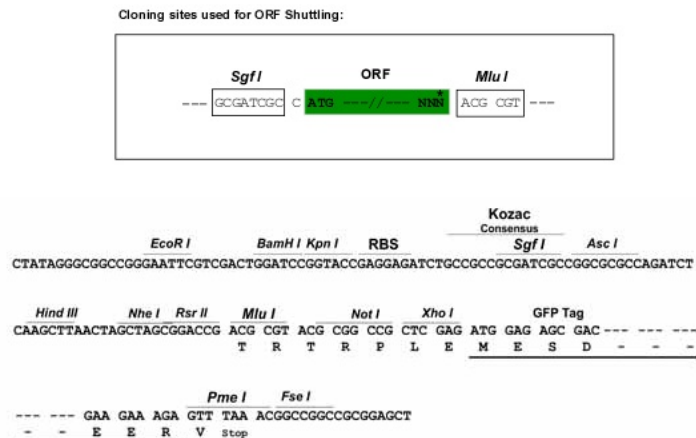
MEQPEDMASLSEFDSLGSIPATKVEITVSCRNLLDKDMFSKSDPLCVMYTQGMENKQWREFGRTEVIDN  
 TLNPDFVRKFIVDYFFEEKQNLRFDLVDVSKSPDLKHDFLGQAFCTLGEIVGSSGSRLEKPLTIGTFS  
 LNSRTGKPMPPAVSNGGVPKKCGTIILSAEELSNCRDVATMQFCANKLDKKDFFGKSDPFLVFYRSNEDG  
 TFTICHKTEVMKNTLNPVWQTFIPVRALCNGDYDRTIKVEVYDWRDGSDFIGFEFTTSYRELARGQSQ  
 FNIYEVINPKKKMKKKKYVNSGTVTLLSFAVESESTFLDYIKGGTQINFVAIDFTASNGNPSQSTSLHY  
 MSPYQLNAYALALTAVGEIIQHYSKMFALGFGAKLPPDGRVSHEFPLNGNQENPSCCGIDGILEAYH  
 SSLRTVQLYGPTNFAPVVTHVARNAAVQDGSQYSVLLIITDGVISDMAQTKEAIVNAAKLPMSIIVGV  
 GQAEFDAMVELDGGDVRISRGKLAERDIVQFVPRDYVDRTGNHVLSMARLARDVLAEPDQLVSYMKA  
 QGIRPRPPPAAPQSPQSPAHSPPGSPVHHTI

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

SgfI-MluI

## Cloning Scheme:



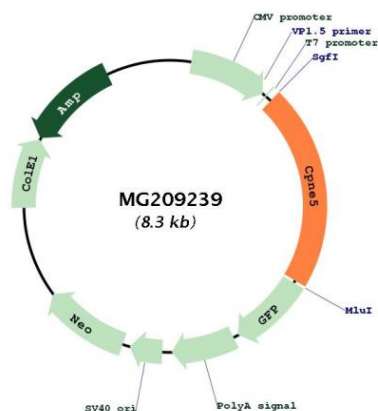
|                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ACCN:                  | NM_153166                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| ORF Size:              | 1779 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| OTI Disclaimer:        | The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. <a href="#">More info</a>                                                                      |
| OTI Annotation:        | This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.                                                                                                                                                                                                                                                                                                                                                                                    |
| Components:            | The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).                                                                                                                                                                                                                                                                                                                                    |
| Reconstitution Method: | <ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.</li> </ol> |
| Note:                  | Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.                                                                                                                                                                                                                                                                                                                                                                                                |
| RefSeq:                | <a href="#">NM_153166.2</a> , <a href="#">NP_694806.1</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| RefSeq Size:           | 4366 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| RefSeq ORF:            | 1782 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Locus ID:              | 240058                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

UniProt ID: [Q8JZW4](#)

Cytogenetics: 17 A3.3

Gene Summary: Calcium-dependent membrane-binding proteins may regulate molecular events at the interface of the cell membrane and cytoplasm. This gene is one of several genes that encodes a calcium-dependent protein containing two N-terminal type II C2 domains and an integrin A domain-like sequence in the C-terminus. [provided by RefSeq, Jul 2008]

## Product images:



Circular map for MG209239